

SUPERIOR BRASS & ALUMINUM CASTING CO.
4893 Dawn Ave.
East Lansing, MI 48823

ANNUAL REPORT OF HAZARDOUS WASTE EXPORTS FOR CALENDAR YEAR 2015
In conformance with CFR262.54

1. PRIMARY EXPORTER (Consignor)
Name: Superior Brass & Aluminum Casting Co.
EPA ID No: MID005339155
Mailing Address: 4893 Dawn Avenue
City: East Lansing State: MI Zip Code: 48823

Site Address: 4893 Dawn Avenue
City: East Lansing State: MI Zip Code: 48823
2. CALENDAR YEAR: 2015
3. DESIGNATED DISPOSAL FACILITY (Consignee)
Name: Newalta Corporation
Address: 52 Imperial Street
Hamilton, Ontario, Canada L8L 4E3
EPA ID No: A100140
4. WASTE SENT to NEWALTA CORPORATION:
Waste Information:
Description of Waste: Waste Bag House Dust/Filters
EPA Hazardous Waste Number: D008 (lead) and D006 (Cadmium)
DOT Proper Shipping Name: Waste Environmentally Hazardous Substance, Solid,
NOS
DOT Hazard Class: 9
DOT ID Code (UN/NA): UN3077

Under:
US EPA Acknowledgement Number:
009234/3E/14, (May 22, 2014 – May 21, 2015)

Environment Canada Permit Number:
14/09234/IMP, (22 May, 2014 – 21 May, 2015)

Shipping Information:
Number of Shipments during Calendar Year: One (1)
a. On 02/25/15 shipped 1,326 pounds (601 kgs) in 13, 55-gallon drums, via
transporter:
Harold Marcus Ltd.
EPA ID No: MIT270012321

b. Total Volume of Waste shipped in calendar year 2015 summary:
One shipment totaling 1,326 pounds, (601 kgs) in 13, 55-gallon drums.
5. WASTE MINIMIZATION STATEMENT
☐ Not required this year
☒ Attached

received
3011 Feb-24/2016

SUPERIOR BRASS & ALUMINUM CASTING CO.
4893 Dawn Ave.
East Lansing, MI 48823

6. CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Signed:  Date: 02-09-16

SUPERIOR BRASS & ALUMINUM CASTING CO.
4893 Dawn Ave.
East Lansing, MI 48823

2015 WASTE MINIMIZATION STATEMENT
FOR WASTE BAGHOUSE DUST

I. PRODUCTION

Waste baghouse dust is the collection of fumes generated by the melting of brass/bronze ingots. Lead and cadmium are the main toxic elements found in the fumes from the melting process of brass and bronze alloys. High concentrations of lead and cadmium in the baghouse dust results in the need to dispose of this material as a hazardous waste. Cadmium is not listed as a compositional element in any of our brass/bronze alloys poured. Cadmium has been found only in trace amounts in these alloys and will be difficult to minimize. Lead will be the main focus of waste minimization. The collected fumes, from the melting of these alloys, passes through a dust collector where dust particles are removed from the air stream. The quantity and quality of this waste is based on the alloys used to meet the customer orders for brass/bronze castings. Based on our customer orders, Superior Brass & Aluminum Casting Co, (Superior Brass) in calendar year 2015 poured eight different brass/bronze alloys.

SUPERIOR BRASS - BRASS/BRONZE ALLOYS POURED IN 2015

| ALLOY ASTM DESIGNATION | ALLOWABLE % LEAD IN EACH ALLOY (by weight) |
|---------------------------|---|
| C83600 (85-5-5-5) | 4.0 -6.0 % |
| C86200 (423 MnBr) | Maximum 0.2 % |
| C86300 (424 MnBr) | Maximum 0.2 % |
| C86400 (420 MnBr) | 0.5 – 1.5 % |
| C86500 (421 MnBr) | Maximum 0.4 % |
| C86700 (422 MnBr) | 0.5 – 1.5 % |
| C87600 (Sil Br) | Maximum 0.09 % |
| C99500 (NDZS specialty) | Maximum 0.09 % |

II. MINIMIZATION

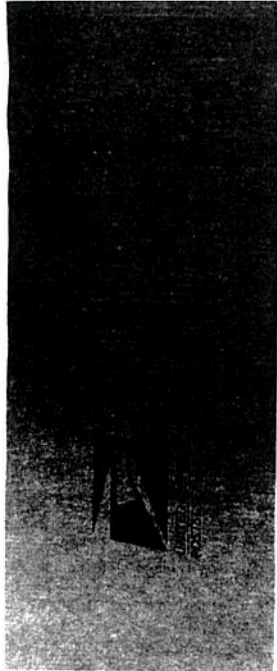
(Discussion is based on total part weight)

Superior Brass continues to make rough cast parts for the water industry, fire hydrants and water valves. Superior Brass continues to address the minimizing of our hazardous waste (lead) through the offering of lower lead alternative alloys to our customers. In 2013 parts made with our highest lead alloy C83600, made up over 7% of the total parts shipped. In 2014 we were able to switch or replace many of the parts made with the higher allowable lead alloy C83600 to parts made with lower allowable lead alloys, such as C87600. In 2014, C83600 parts shipped were down to approximately 2% of the total parts shipped. In 2015, this reduction continued. The amount of parts made of C83600 was down to less than 1% of all parts shipped in 2015. With the decrease in the amount of parts poured out of C83600 came a decrease in the toxicity of this waste. Both Lead and Cadmium concentrations in mg/kg in our waste baghouse dust decrease 2014 and again in 2015.

Superior Brass hopes to continue to reduce or nearly eliminate the amount of C83600 alloy poured thus continuing to reduce the amount and toxicity of our hazardous waste in the future.



7015 1520 0001 5479 7785



First Class Mail

RETURN RECEIPT
REQUESTED

Superior Brass & Aluminum
4893 Dawn Ave
East Lansing, MI 48823

Office of Enforcement and
Compliance Assurance
Office of Federal Activities
International Compliance Assur.
Division (2254A)
Environmental Protection Agency
1200 Pennsylvania Ave., NW
Washington, DC 20460

Route **EPA Mail**

To: International Compliance
Assurance Division
Mailstop: ARIEL RIOS NORTH
Department: 2254A

Certified



70151520000154797785

424